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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,400	01/05/2005	Jacob Hendrik Stil	TS1285US	5144

7590 10/22/2007  
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EXAMINER
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BOYER, RANDY

ART UNIT	PAPER NUMBER
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1797

MAIL DATE	DELIVERY MODE
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10/22/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/520,400

Applicant(s)

STIL, JACOB HENDRIK

Examiner

Randy Boyer

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 05 January 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☒ Claim(s) 1 and 7 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date See Continuation Sheet.

- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

Continuation of Attachment(s) 3. Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :

5 January 2005 and 24 July 2006.

## **DETAILED ACTION**

### ***Claim Objections***

1. Claims 1 and 7 are objected to for lack of antecedent basis in the claims.
2. With respect to claims 1 and 7, the claims recite the limitation "the dust-loaded hot-gaseous product." There is insufficient antecedent basis for such limitation in the claims. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office Action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

4. Claims 1-8 are rejected under 35 U.S.C. 102(a) as being clearly anticipated by von Kossak (DE 10102963 C1). For the record, Examiner notes that the disclosure of the instant application is substantially similar and overlapping with that of von Kossak and that Figures 1 and 2 of the instant application are identical to Figures 1 and 2 of von Kossak.

5. With respect to claim 1, von Kossak discloses a method for gasification of a solid carbonaceous feed, wherein the gasification is performed in an elongated gasification reaction vessel comprising: (a) a gasifier unit (1); (b) a co-axial positioned cooled channel (7) through which the dust-loaded hot-gaseous product of the gasifier unit (5) is discharged from the reactor (5); and (c) means (6) to supply a quench gas to the dust-loaded hot-gaseous product at a position downstream of the gasifier unit (1), wherein to an annular space between the reactor wall (4) and the cooled channel (7) a dust-free gas is supplied at a rate sufficient to ensure that no dust-loaded hot gas will flow from the cooled channel (7) to the annular space (25a) (see von Kossak, Figs. 1 and 2, and accompanying text).

6. With respect to claim 2, von Kossak discloses wherein the pressure in the annular space (25a) is equal to or greater than the pressure in the cooled channel (7) (see von Kossak, column 4, lines 62-68; and column 5, lines 1-8).

7. With respect to claim 3, von Kossak discloses wherein the temperature of the dust-free gas is between 200°C and 350°C (see von Kossak, column 5, lines 9-13; Figs. 1 and 2, and accompanying text).

8. With respect to claim 4, von Kossak discloses wherein the dust-free gas is part of the gaseous product of the gasifier unit (1) from which dust has been removed downstream of the gasification reactor (5).

9. With respect to claim 5, von Kossak discloses wherein the dust-free gas is part of the quench gas (see von Kossak, column 5, lines 35-45; Figs. 1 and 2, and accompanying text).

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10. With respect to claim 6, von Kossak discloses wherein the means (6) to supply quench gas is provided with gas discharge openings (27) to supply quench gas to the cooled channel (7) and gas discharge openings (27) to supply quench gas to the annular space (25a).

11. With respect to claim 7, von Kossak discloses an elongated gasification reactor vessel comprising: (a) a gasifier unit (1); (b) a co-axial positioned cooled channel (7) through which the dust-loaded hot-gaseous product of the gasifier unit (1) is discharged from the reactor (5); and (c) means (6) to supply a quench gas to the dust-loaded hot gaseous product at a position downstream of gasifier unit (1), wherein also means to supply a dust-free gas to an annular space (25a) between the reactor vessel wall (4) and the cooled channel (7) is present (see von Kossak, Figs. 1 and 2, and accompanying text).

12. With respect to claim 8, von Kossak discloses wherein the means (6) to supply quench gas is provided with gas discharge openings (27) to supply quench gas to the cooled channel (7) and gas discharge openings (27) to supply quench gas to the annular space (25a) (see von Kossak, Figs. 1 and 2, and accompanying text).

### ***Conclusion***


13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Randy Boyer whose telephone number is (571) 272-7113. The examiner can normally be reached Monday through Friday from 10:00 A.M. to 7:00 P.M.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn A. Caldarola, can be reached at (571) 272-1444. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RPB



Glenn Caldarola  
Supervisory Patent Examiner  
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